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(71) Applicant (for all designated States except US): **RAPID  
LABORATORY MICROSYSTEMS INC.** [CA/CA]; 69  
Shanley Street, Kitchener, Ontario N2H 5N7 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MIKKELSEN, Su-  
san, R.** [CA/CA]; 69 Shanley Street, Kitchener, Ontario  
N2H 5N7 (CA). **ERTL, Peter** [AT/CA]; 31-78 College Av-  
enue West, Guelph, Ontario N1G 4S7 (CA). **SPARKES,  
Doug** [CA/CA]; 145 Union Blvd., Kitchener, Ontario N2M  
2S3 (CA). **O'HAGAN, Liam** [CA/CA]; RR#4, Walkerton,  
Ontario N0G 2V0 (CA). **MANN, Thomas** [CA/CA]; 410  
1st Street South, Hanover, Ontario N4N 2S3 (CA). **ULL-  
RICH, Paul** [CA/CA]; 90 Royal Orchard Drive, Kitchener,  
Ontario N2N 1J6 (CA).

(74) Agents: **CONN, David, L.** et al.; Borden Ladner Gervais  
LLP, World Exchange Plaza, 100 Queen Street, Suite 1100,  
Ottawa, Ontario K1P 1J9 (CA).

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ning of each regular issue of the PCT Gazette.

(54) Title: ELECTROCHEMICAL ASSAY FOR THE IDENTIFICATION OF MICROORGANISMS

(57) Abstract: A method for the phenotypic identification of microorganisms is provided. The method is based on the evaluation of the effects of various compounds (effectors) on the respiratory cycle activity of microorganisms. Measurements are based upon the ability of the microorganism to transport electrons to an external chemical oxidant (a mediator) that is added to the microorganism sample. The mediator interacts with the terminal components of the respiratory pathway and the extent of its consumption is related to the ability of the microorganism to respire. The consumed mediator is subsequently measured electrochemically. Electrochemical signals which are generated in the presence or absence of an effector can be used to generate a signal pattern that is unique to an organism and can be used for identification.



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